## **Needham Downtown Streetscape Improvements**

# Board of Selectmen Presentation Draft Concept Report

February 25, 2014



#### **Downtown's History (GPA/Dedham Ave)**





## **Highland Ave circa 1935**





## **Great Plain Ave – unknown date**





#### **Dedham Ave circa 1935**





# **Overall Project Goals**

- Improve Traffic Committee described traffic as "broken"
- Improve Pedestrian Safety
- Improve Downtown Aesthetics

## **Committee Goal**

- Promote economic growth through an environment that is:
  - Safe
  - Accessible
  - Aesthetically Pleasing
  - Pedestrian Friendly



#### **Project Approach**

- Two Pronged Approach
  - Investigate Traffic and Streetscape concurrently
    - Traffic to collect data on existing conditions
    - Create a computer model of existing conditions
    - Develop alternatives to improve traffic
    - Streetscape to collect existing conditions
    - Determine what gives the Downtown its character
    - Investigate the 5 Downtown areas (Theater, Common, Chestnut, Post Office, Chapel)
    - Develop Unifying elements
    - Create a concept for improving pedestrian safety and Downtown aesthetics.

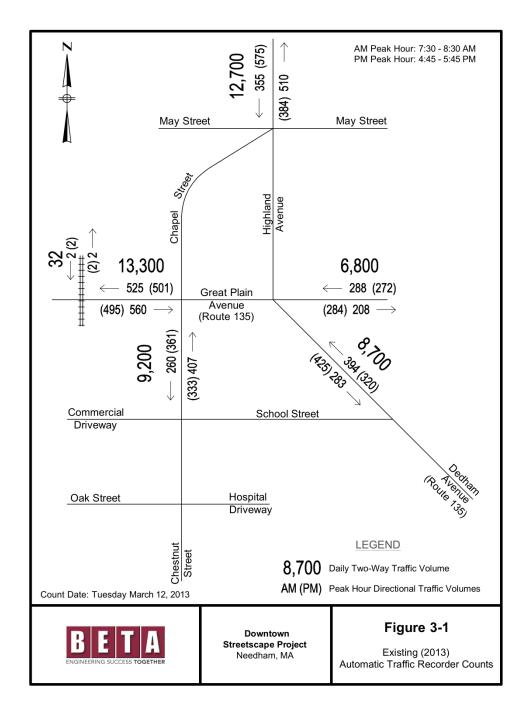


#### **Traffic**

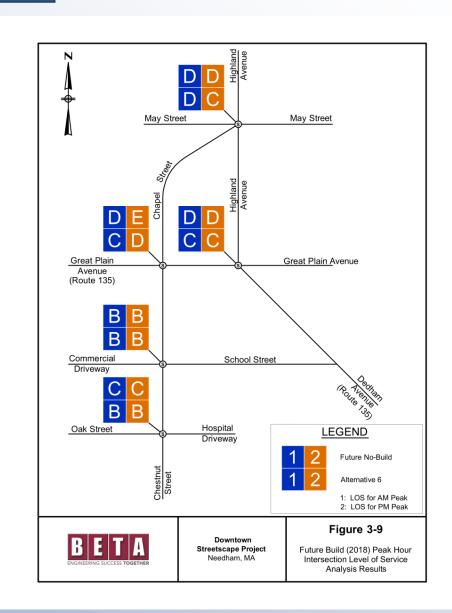
- Improved Signals/Coordination
- Improved Railroad Preemption
- Crosswalks/Bump outs
- Bike Access
- On-Street Parking



#### **Existing Traffic Flow**



#### **Downtown Intersection LOS**



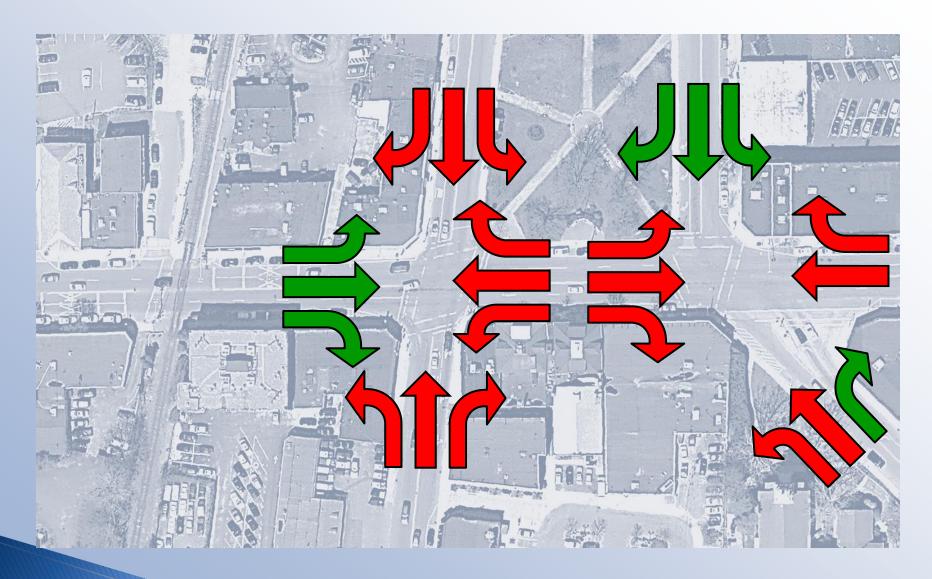


## **Railroad Preemption**



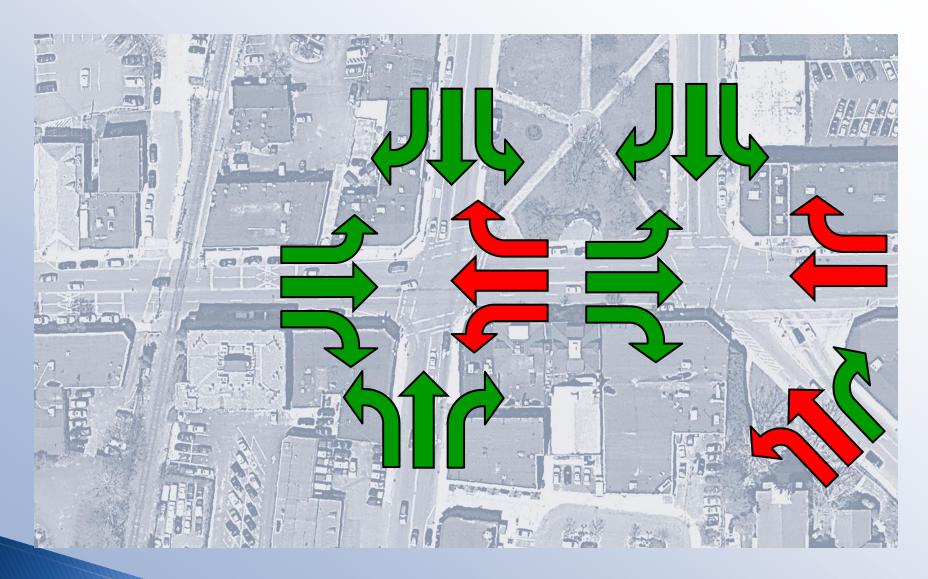


#### **Traffic Movement During Current Railroad Preemption**



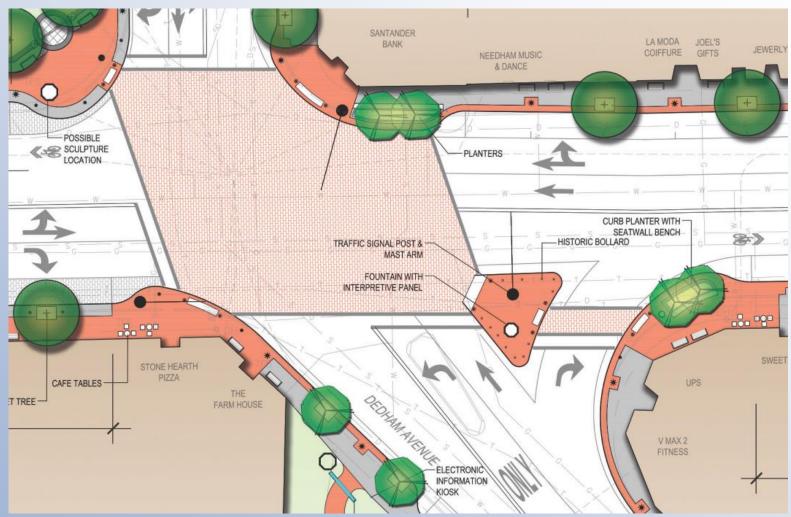


#### **Traffic Movement During Future Railroad Preemption**



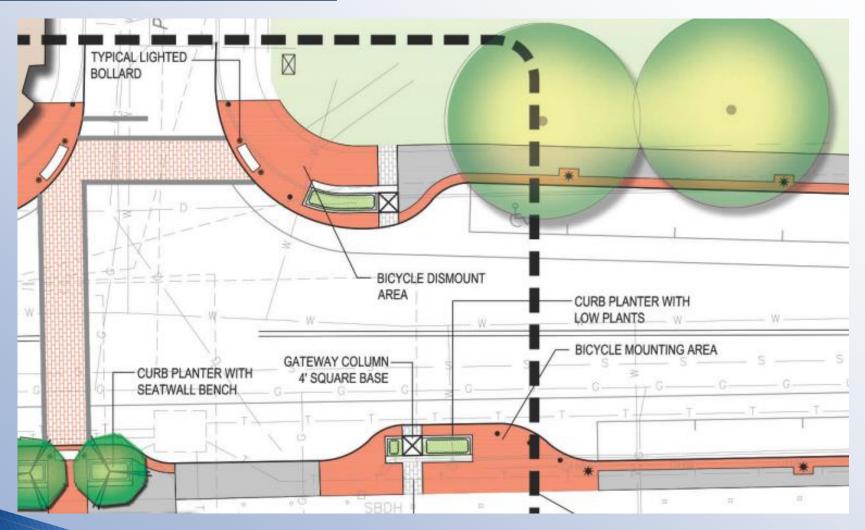


## **Crosswalks/Bump Outs**





#### **Bike Accomodations**



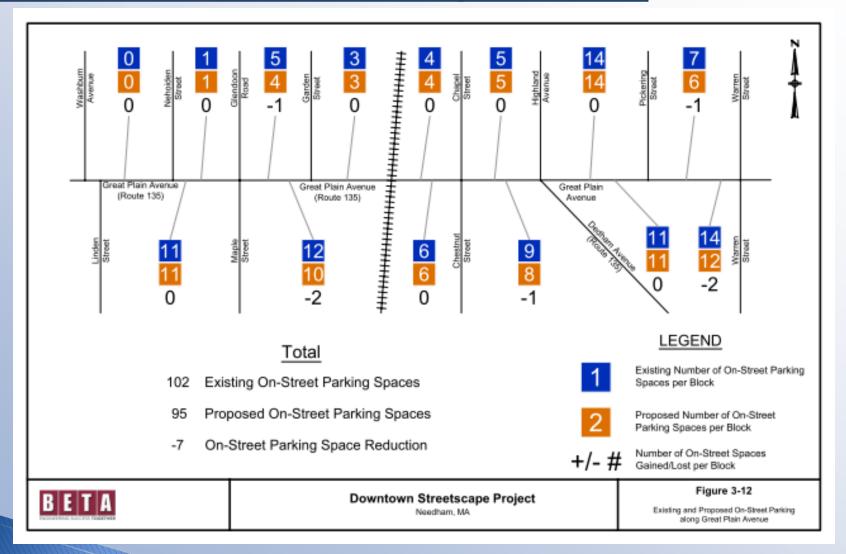


#### **Recommended Traffic Plan**

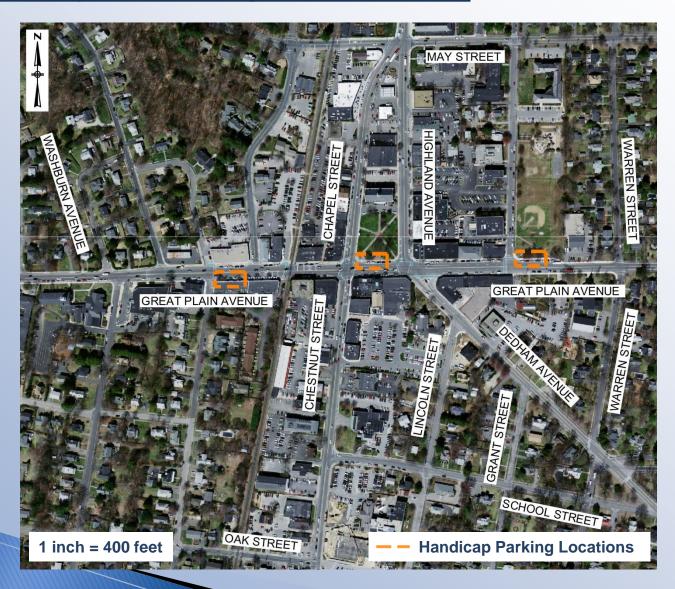




#### **Downtown On-Street Parking Allocation**



# **Handicap Parking Locations**





#### **Streetscape**

- Town Common
- Crosswalks/Bump outs
- Gateways
- Gathering Areas
- Furniture
- Trees
- Sculptures
- Lighting



Elements that unify can allow for subtle unique

differences.













Existing metal work draws from Needham Town Hall (left). This can be continued with new (right).

# **Town Common at Great Plain Avenue**



Town Hall and Common Aerial Photograph.



Corner of Great Plain and Chapel St. above and Highland Ave. below.



View along Great Plain Avenue.

#### **PAVING**

#### **Concrete and Exposed Aggregate Concrete**











# PAVING Brick







# **PAVING Granite Pavers**









# PAVING Crosswalks











## SITE FURNISHINGS





















# SITE FURNISHINGS Ornamental Metal/Art











#### **ORNAMENTAL LIGHTING**



Typical ornamental post with banner arm on Chapel Street.



**Ornamental lighting on Chapel St.** 

- Globe fixture with ornamental black fluted iron post currently on most streets except Great Plain Ave.
- Current Globe Light fixture has low pressure sodium bulbs (yellow light).
- Uniformity in banner size importantbetter to be perpendicular to road where feasible.
- Possibility to use LED on Great Plain Ave but should match light color



Banner arm perpendicular to Street.



Typical globe light fixture.



Ornamental post traffic light with acorn globe on Chestnut Street.



# TREE PIT/GRATE







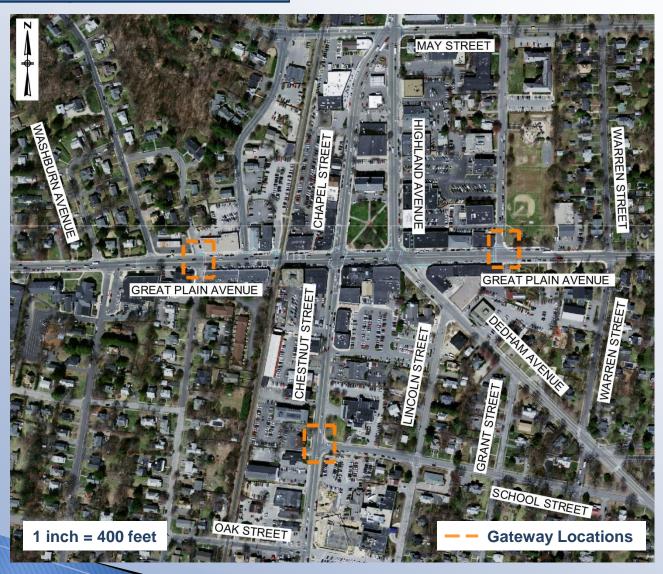








# **Gateway Locations**

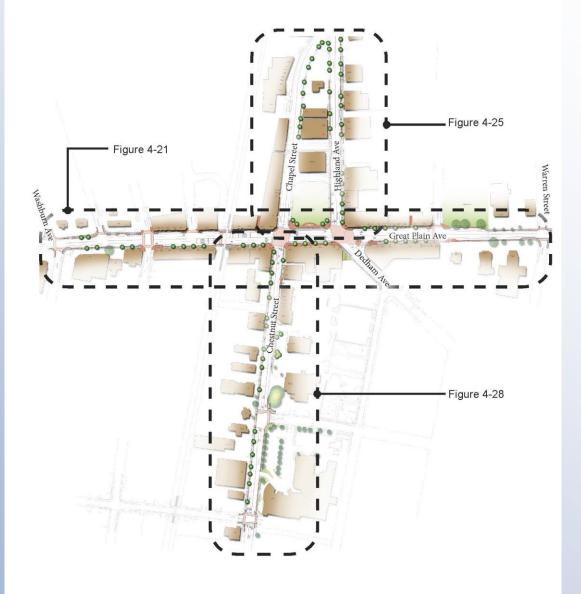




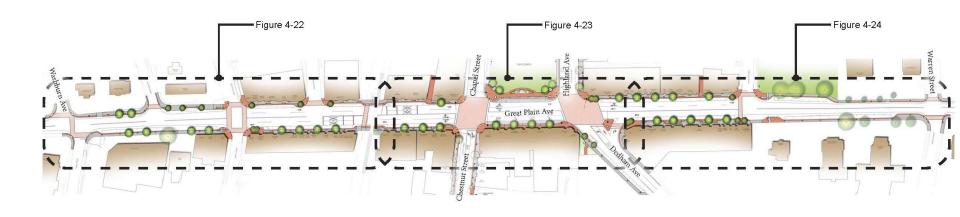
# **Concept Plans**

- Contained in Draft Report
- Figures 4-20 to 4-30
- Will review quickly then switch to full concept plans









Great Plain Ave

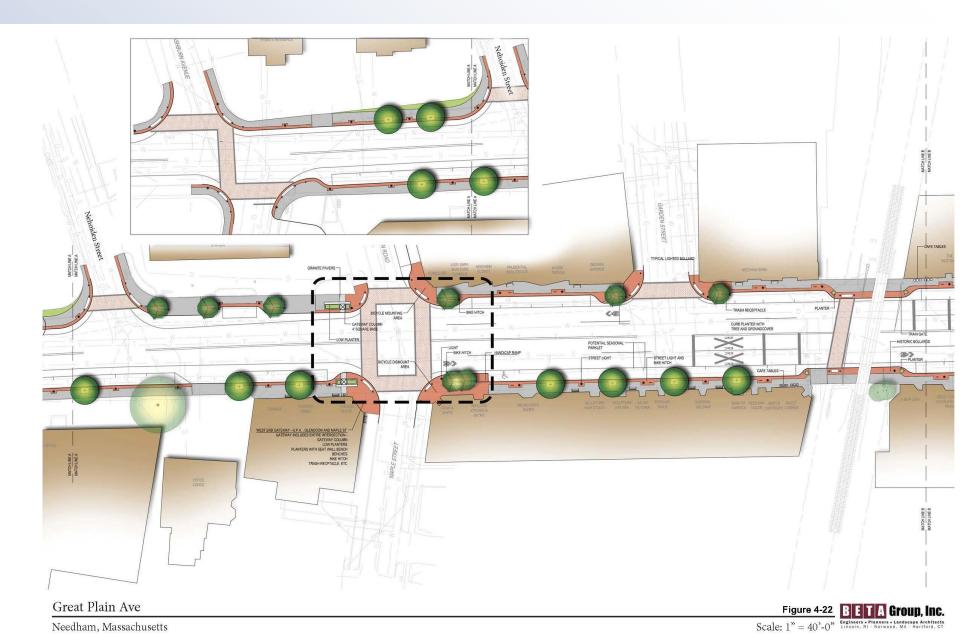
Figure 4-21

Scale: N.T.S.

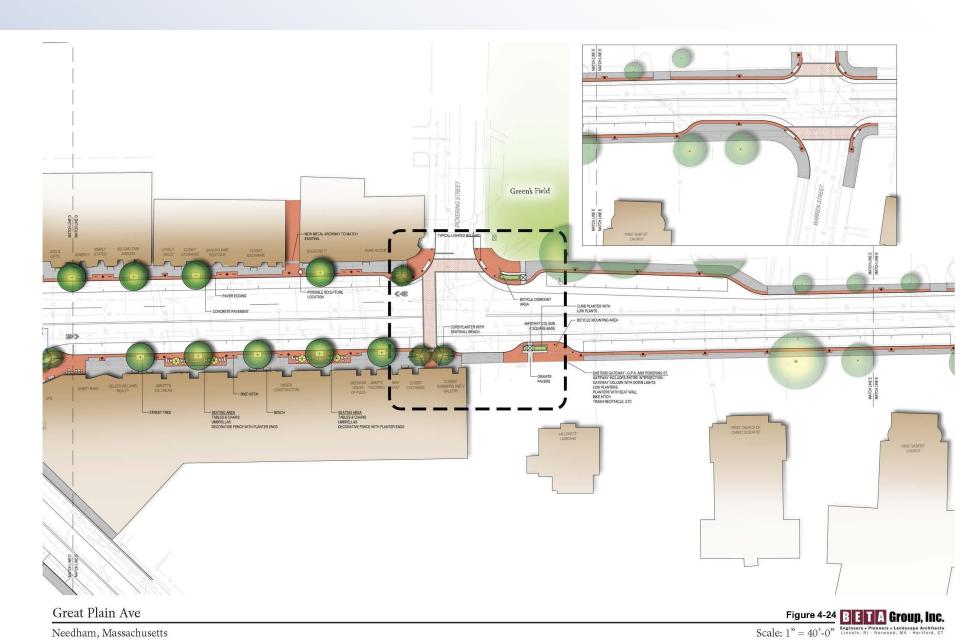
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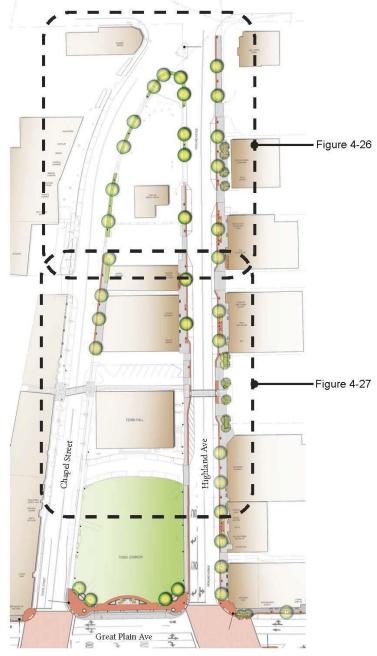
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Scale: N.T.S. Needham, Massachusetts









Highland Ave

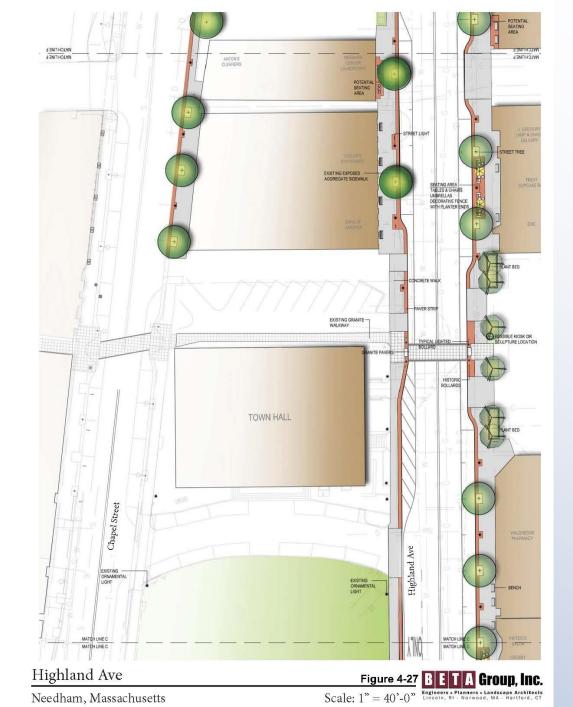
Figure 4-25

Scale: N.T.S.

BETA Group, Inc.

Beginners - Planners - Landscape Architects
Lincoln, RI - Norwood, MA - Hartford, of







Chestnut Street

Figure 4-28

Scale: N.T.S.

Scale: N.T.S.

Scale: N.T.S.

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Scale: N.T.S.

Scale: N.T.S. Needham, Massachusetts



Needham, Massachusetts



## **Perspectives**

Town Common Gateway Seating Area



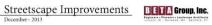














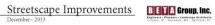














## **Other Considerations**

Project Phasing
Funding – Chapter 90
Public Education
Undergrounding Utilities
Drainage
Easements



## Questions??

